



ROY F. WESTON, INC.
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708-918-4000



3 September 1991

Mr. Wayde Hartwick
Remedial Project Manager
United States Environmental Protection Agency
Waste Management Division - Office of Superfund
230 South Dearborn Street
Chicago, Illinois 60604

EPA Contract No.: 68-W8-0089

Work Assignment No.: 009-5PJ7

Document Control No.: 4500-09-AEAP

Subject: RI Field Work Activities at the American Chemical
Services Site, Griffith, Indiana

Dear Mr. Hartwick:

Roy F. Weston, Inc. (WESTON) is pleased to submit a report of those activities performed 22 August 1991 at American Chemical Services (ACS). The primary activity at ACS during this day was the collection of groundwater samples for volatile organic compound analysis at seven monitoring wells. A description of these activities is given in the report.

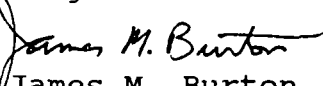
Also included with this report are photographs taken during the sampling activities. A log of the photographs is also provided.

If you have any questions, please do not hesitate to call Jim Burton or Jeffrey Watson at (708) 918-4000.

Very truly yours,

ROY F. WESTON, INC.

Jeffrey V. Watson
Project Scientist


James M. Burton, P.E.
Site Manager

CWK:JMB/slr
Enclosures
cc: Paul Courtney, IDEM

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**AMERICAN CHEMICAL SERVICES
OBSERVATION REPORT
22 AUGUST 1991**

August 22, 1991

Personnel: Tom Dushek and Steve Wiskef of Warzyn Engineering, Inc. (WEI), and Jeffrey Watson of Roy F. Weston, Inc. (WESTON).

Activity: WEI collected groundwater samples for volatile organic compounds analysis at seven monitoring wells. Mr. Dushek performed decontamination and sampling duties and Mr. Wiskef performed sample labeling/shipping duties as well as physical testing of samples for pH, specific conductivity, and temperature.

Comments: A summary of observations made by WESTON of sample collection at the seven wells is given below:

<u>Moni- toring Well</u>	<u>HNu (Head- space)</u>	<u>Depth to Water (ft)</u>	<u>Total Depth (ft)</u>	<u>Sample Description</u>	<u>pH</u>	<u>SC</u>	<u>Temp</u>
MW-15	0.0	6.9	15.9	Light brown, odorless. Collection after 6.0-gallon purge. 2 VOA samples, 2 duplicate VOA samples.	7.33	3,800	12.5° C
MW-20	1.0	11.92	19.70	Dark brown appearance, odorless. Collection after 5.0-gallon purge. 2 VOA samples, 2 matrix spikes.	7.25	1,480	12.0° C
MW-19	0.0	4.75	15.0	Dark gray, heavy organic odor. Collection after 5.0-gallon purge. 2 VOA samples.	7.35	2,900	18.5° C
MW-12	0.0	9.86	20.0	Medium brown, faint organic odor. Collection after 5.0-gallon purge. 2 VOA samples.	6.74	400	16.5° C
MW-14	1.0	10.9	18.0	Light brown, odorless. Collection after 4.0-gallon purge. 2 VOA samples.	6.84	1,080	18.0° C
MW-11	0.0	8.68	20.0	Medium brown, odorless. Collection after 6.0-gallon purge. 2 VOA samples.	6.86	320	18.0° C
MW-13	0.0	6.07	15.0	Medium brown, odorless. Collection after 5-gallon purge. 2 VOA samples.	7.19	510	18.0° C

All wells were visually inspected for signs of tampering/disturbance prior to sample collection. Once unlocked, the headspaces were tested with an HNu photoionization probe against the ambient background of 0.0 to 1.0 units. None of the sampled wells exhibited significant HNu readings. Each well was measured

for depth to water and total depth to determine well volumes prior to purging by stainless steel bailers.

All water level determinations and bailer operations were preceded by a three-step decontamination process:

1. Liquinox.
2. Deionized water.
3. MilliQ (ultra-pure) water spray.

Mr. Dushek wore Tyvek coveralls, boot coverings, and surgical gloves at each sample location.

All VOA samples were individually labeled, tagged, and placed in a zip-lock plastic bags. The bags were then placed in coolers, protected with vermiculite, and preserved with bags of ice. A chain-of-custody form was taped to the inside of the cooler lid.

The cooler was then sealed with custody seal tape and shipped via Federal Express to Compuchem Laboratories in Chapel Hill, North Carolina.

PHOTOGRAPH LOG
AMERICAN CHEMICAL SERVICES
22 AUGUST 1991

<u>NUMBER</u>	<u>DESCRIPTION</u>	<u>DATE</u>
ACS-1	MW-15, exterior lock cap removed	8/22/91
ACS-2	Decontamination buckets	8/22/91
ACS-3	MW-15, water volume determination	8/22/91
ACS-4	MW-15, bailing purge water	8/22/91
ACS-5	MW-19, testing headspace with HNu	8/22/91
ACS-6	MW-19, decanting bailer into sample bottle	8/22/91
ACS-7	MW-12, purge water	8/22/91
ACS-8	Ice in cooler	8/22/91
ACS-9	Packing of samples	8/22/91
ACS-10	Attaching chain-of-custody form	8/22/91
ACS-11	Sealed cooler	8/22/91



8 22 '91

ACS-1

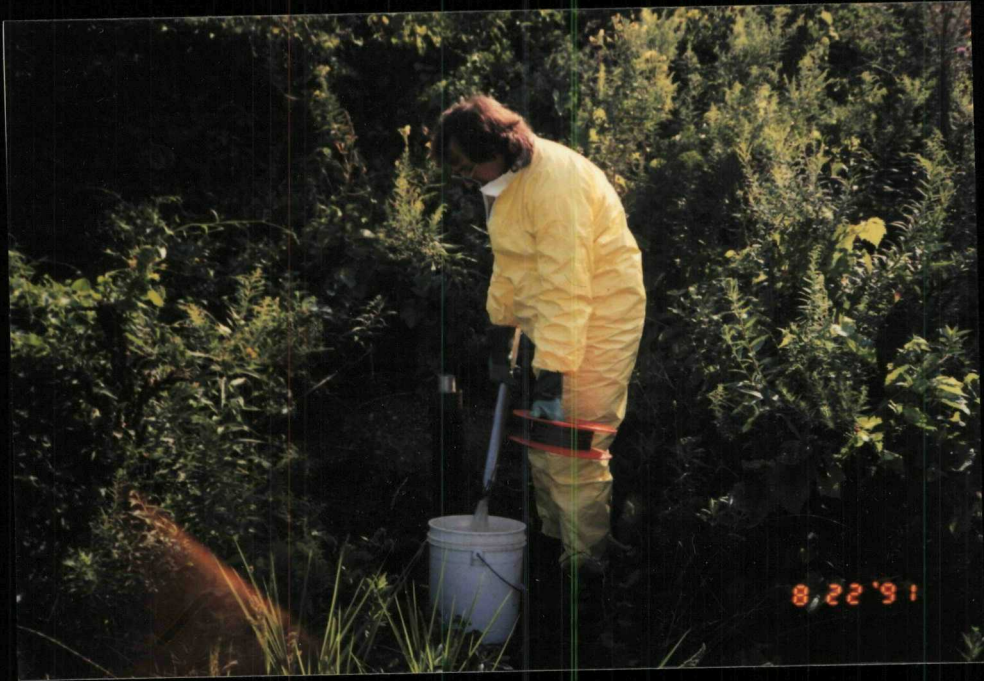


ACS-2



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ACS-3



ACS-4



8 22 '91

ACS-5



ACS-6



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ACS-7



THIS END
UP

FRAGILE

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ACS-8



ACS-9



8 22 '91

Acs-10



ACS-11